## IN THE CLAIMS

Please amend the claims as follows:

1. (original) A luminaire comprising:

a light-directing element having a light emission window, said light-directing element having a shape for directing light, which light originates from an electric light source to be accommodated, into an optical fiber system,

characterized in that said shape is calculated in accordance with a ray-tracing algorithm which takes into account that said light source to be accommodated is voluminous.

- 2. (original) A luminaire according to claim 1, characterized in that said shape is composed of n solids of revolution of parabolic sectors, wherein adjoining parabolic sectors form an integral surface.
- 3. (original) A luminaire according to claim 2, characterized in that the parabolic sectors are parts of parabola defined by the following set of equations:

$$a(i) = (z(i) - z(i + 1)) / (x(i)^2 - x(i+1)^2)$$
  
 $b(i) = a(i)$ 

 $C(i) = (x(i)^{2} * z(i + 1)) - ((x(i + 1)^{2} * z(i)) / (x(i)^{2} - x(i + 1)^{2})$ 

wherein:

a(i), b(i) and c(i) are polynomial coefficients of the parabolic sectors

such that coordinates of each point of the reflective surface fulfill the condition:

$$a(i)*x^2 + b(i)*y^2 - z + c(i) = 0;$$

x, y, z are coordinates of the i<sup>th</sup> surface of revolution of the parabola in a linear x, y, z tri-coordinate system;

the coordinates x(i), z(i), x(i+1), z(i+1) are limits of the  $i^{th}$  parabolic sector in a plane xz;

i is an integer from 1 to n.

- 4. (currently amended) A luminaire according to claim 1, 2 or 3, characterized in that the light-directing element is chosen from the group consisting of a reflector, a refractor, and a combination thereof.
- 5. (currently amended) A luminaire according to claim 1, 2, 3, or
- 4, characterized in that the light source is an electric lamp.

- 6. (original) A luminaire according to claim 5, characterized in that the electric lamp is a Light Emitting Diode.
- 7. (currently amended) A luminaire according to any one of the preceding claims laim 1, characterized in that the optical fiber system comprises a bundle of optical fibers.
- 8. (original) A luminaire according to claim 7, characterized in that a glass rod is positioned at an end of the optical fiber.
- 9. (currently amended) A dynamic road-marking unit comprising a luminaire according to any one of the preceding claimsclaim 1.
- 10. (original) A dynamic road-marking unit according to claim 9, characterized in that the luminaire has a shaped housing adapted to fit a saw-cut recess for accommodating the unit.